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(71) Applicant: MITSUI TOATSU CHEM INC

(72) Inventor: KITAGAWA YORIHISA

HIROSE ZENKO **ASHIDA YOSHINORI** ISOTANI KAZUYOSHI

(74) Representative:

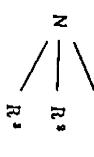
## FILM AMORPHOUS SILICON (54) FORMATION OF

(57) Abstract:

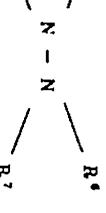
PURPOSE: To increase the growing speed of an amorphous silicon (a-Si) of ammonia (deriv.) to a gaseous film without deteriorating the method by adding a specified amount chemical vapor deposition (CVD) manufacture of an a- Si film by a characteristics of the film in the

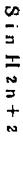
deposit an a-Si film on the substrate. decomposed at about 250W600°C to nitrogen, and the silane is thermally substrate is placed in a decomposition amount of silicon in the gaseous hydrazine (deriv.), and Si is the the ammonia (deriv.) and/or relation represented by formula IV the silane by an amount satisfying and/or hydrazine (deriv.) is added to At this time, said ammonia (deriv.) together with an inert gas such as introduced into the furnace optionally represented by formula III (where n is furnace, silane of higher order each of R1WR7 is H, alkyl or aryl. A formula II is used. In the formulae hydrazine (deriv.) represented by represented by formula I and/or CONSTITUTION: Ammonia (deriv.) [where N is the amount of nitrogen in 2) such as disilane or trisilane is

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0.01≦N/8; (グラムーアトム比)<0.2

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